

**Additional Changes for Consideration Not Included in May 2007  
Proposal of  
Triennial Review Water Quality Standards Amendments**

<b>Section of Regulation Amended</b>	<b>Summary of Change</b>	<b>Comments</b>
9 VAC 25-260-50 Numerical criteria for dissolved oxygen, pH, and maximum temperature	" ***** For a thermally stratified man-made lake or reservoir in Class III, IV, V or VI waters that are listed in 9 VAC 25-260-187, these dissolved oxygen criteria apply only to the epilimnion <del>in the lacustrine portion</del> of the water body. When these waters are not stratified, the dissolved oxygen criteria apply throughout the water column."	This is a proposed modification of the dissolved oxygen criteria amendment in Section 50 that was part of the rulemaking to protect the designated uses of lakes and reservoirs from the impacts of nutrients. Section 50 was amended to clarify that the existing dissolved oxygen criteria during times of thermal stratification should only apply to the upper layer (epilimnion) in man-made lakes and reservoirs where nutrient enrichment is controlled by applicable nutrient criteria in section 187 of the regulation. See Attachment A for the text of the Section 50 and 187 amendments as the effective date was August 14, 2007 so the May the 2007 triennial review proposal document does not include this text. The additional change in section 50 to the ***** footnote would have the DO criteria only apply in the epilimnion throughout a lake or reservoir listed in section 187 where nutrient criteria are in place for control of eutrophication, and not just limited to the lacustrine portion.
9 VAC 25-260-140 Criteria for Surface Water	Minor unit and/or CAS # corrections in the Table of Parameters.	Identified by agency staff since May 2007 proposal was developed.
9 VAC 25-260-160. Fecal coliform bacteria; shellfish waters.	"In all open ocean or estuarine waters capable of propagating shellfish or in specific areas where public or leased private shellfish beds are present, and including those waters on which condemnation <del>or</del> <del>restriction</del> classifications are established by the State Department of Health, the following criteria for fecal coliform bacteria shall apply:	The Virginia Department of Health has asked DEQ to revise the fecal coliform criteria for shellfish waters to reflect changes they are making in their testing method to conform with the National Shellfish Sanitation Program. Once VDH completes the transition from the MPN multiple tube

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	<p>The geometric mean fecal coliform value for a sampling station shall not exceed an MPN (most probable number) <u>or MF (membrane filtration using mTEC culture media)</u> of 14 per 100 milliliters (ml). The <u>estimated</u> 90<sup>th</sup> percentile shall not exceed an MPN of 43 <u>per 100 ml</u> for a 5-tube, <del>3</del> decimal dilution test <u>or an MPN of 49 per 100</u> for a 3-tube, <del>3</del>-decimal dilution test <u>or MF test of 31 CFU (colony forming units) per 100 ml.</u>"</p>	<p>method to the MF direct plate count method with mTEC media, DEQ anticipates proposing in a future rulemaking to remove the wording related to the MPN method.</p>																								
9 VAC 25-260-187.	<table> <thead> <tr> <th><u>Name</u> <u>(µg/L)</u></th><th><u>chl-a (µg/L)</u></th><th><u>TP</u></th></tr> </thead> <tbody> <tr> <td><u>Chris Green Lake</u></td><td><u>35</u></td><td><u>40</u></td></tr> <tr> <td><u>Fluvanna Ruritan Lake</u></td><td><u>60</u></td><td><u>40</u></td></tr> <tr> <td><u>Lake Arrowhead</u></td><td><u>35</u></td><td><u>40</u></td></tr> <tr> <td>Lake Nelson</td><td><del>35</del> <u>60</u></td><td>40</td></tr> <tr> <td><u>Lakeview Reservoir</u></td><td><u>35</u></td><td><u>40</u></td></tr> <tr> <td>Lake Prince</td><td><del>35</del> <u>60</u></td><td>40</td></tr> <tr> <td><u>Swift Creek Lake</u></td><td><u>35</u></td><td><u>40</u></td></tr> </tbody> </table>	<u>Name</u> <u>(µg/L)</u>	<u>chl-a (µg/L)</u>	<u>TP</u>	<u>Chris Green Lake</u>	<u>35</u>	<u>40</u>	<u>Fluvanna Ruritan Lake</u>	<u>60</u>	<u>40</u>	<u>Lake Arrowhead</u>	<u>35</u>	<u>40</u>	Lake Nelson	<del>35</del> <u>60</u>	40	<u>Lakeview Reservoir</u>	<u>35</u>	<u>40</u>	Lake Prince	<del>35</del> <u>60</u>	40	<u>Swift Creek Lake</u>	<u>35</u>	<u>40</u>	<p>Section 187.A (See Attachment A) of the amendments effective on August 14, 2007 to protect the designated uses of lakes and reservoirs from the impacts of nutrients recognizes that additional man-made lakes and reservoirs may be added as new reservoirs are constructed or monitoring data become available from outside groups or future agency monitoring. DEQ staff intends to include <b>Chris Green Lake, Fluvanna Ruritan Lake, Lake Arrowhead, Lakeview Reservoir, and Swift Creek Lake</b> in the agency monitoring program, so these three lakes with appropriate nutrient criteria based on fishery type are proposed for addition to Section 187.VDGIF was consulted to confirm the appropriate fishery type was used in assigning the nutrient criteria. In addition, VDGIF noted that they now include <b>Lake Nelson</b> in their lake fertilization program, so the current nutrient criteria in Section 187 for <b>Lake Nelson</b> are proposed for change to the criteria</p>
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		appropriate for a fertilized lake fishery. In addition, a correction to the chlorophyll "a" nutrient criterion for <b>Lake Prince</b> is proposed; this warm water fishery lake is located in nutrient ecoregion 14 but was assigned nutrient criteria appropriate for warm water fishery lakes located in nutrient ecoregion 9. The total phosphorus criterion for Lake Prince does not change because the criterion of 40 µg/L is the same for warm water fishery lakes in both ecoregions 9 and 14.
9 VAC 25-260-390 through 540	<p><b>Modify PWS delineation language in the appropriate section to extend the designated use to include tributaries from the raw water intake to points 5 miles upstream:</b></p> <p>NF Catoctin Creek (Purcellville)</p> <p>North River (City of Staunton)</p> <p>Cherrystone Creek (Chatham)</p> <p>Chickahominy River (Newport News Waterworks)</p> <p>Dan River (City of Danville)</p> <p>Dan River (South Boston)</p> <p>Golin Run (Spotsylvania Co., Rappahannock River)</p> <p>Meherrin River (Lawrenceville)</p> <p>Northeast Creek (Louisa County)</p> <p>Nottoway River (Jarratt)</p> <p>Powell River (Pennington Gap)</p> <p>Rapidan Service Authority (Spotsylvania Co.)</p> <p>Redd Creek (Altavista)</p> <p>Reed Creek (Wytheville)</p> <p>Smith Creek (Clifton Forge)</p>	These requested changes from VDH were received too late to be included in the May 2007 proposal. Staff has notified the localities of the proposed changes.

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	<p>Smith Creek (New Market)</p> <p>South Anna River (Ashland)</p> <p><b>Remove latitude and longitude for intakes for security reasons:</b></p> <p>Beaverdam Swamp Reservoir (Gloucester County Water System, Gloucester Co.)</p> <p>Black Creek (Nelson County Service Authority, Nelson Co.)</p> <p>Golin Run (Spotsylvania Co., Rappahannock River)</p> <p>X-trib Goose Creek (Camp Highroad, Loudoun Co.)</p> <p>James River (Henrico Co. intake, Henrico Co.)</p> <p>James River (Benedictine Society intake, Goochland Co.)</p> <p>Lake Monocan/Allen Creek (Wintergreen Mountain Village, Nelson Co.)</p> <p>Mechunk Creek (Dept. Corrections, Fluvanna Co.)</p> <p>New River &amp; Powder Mill Branch (Austinville &amp; Ivanhoe intakes for Wythe County Water Department, Wythe Co.)</p> <p>X-trib NF Holston River (Hilton Community #2, Scott Co.)</p> <p>Rapidan River (Rapidan Service Authority, Wilderness Shores intake, Orange Co.)</p> <p>Shenandoah River (Berryville, Clarke Co.)</p> <p>South Holston Lake (Bristol Virginia Utilities Board, Washington Co.)</p> <p>South Fork Holston River (Thomas Bridge Water Corporation, Smyth Co.)</p>	<p>These requested changes from VDH were received too late to be included in the May 2007 proposal. Staff has notified the localities of the proposed changes.</p>
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	<p>Spring Hollow Reservoir (Roanoke River, Western Virginia Water Authority Roanoke Co.)</p> <p><b>Minor name corrections in basin tables and adjustments to existing and proposed Class VII (swamp waters) delineations</b></p>	<p>Identified by agency staff since May 2007 proposal was developed.</p>
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